

Re: NASA Extraction Lit

Mocka, Corey <mocka.corey@epa.gov>

Fri 9/16/2011 9:18 AM

To: Liu, Xiaoyu <Liu.Xiaoyu@epa.gov>

I can't find the section right now, but I don't remember them indicating what kind of paint they studied in the laboratory or in the field. Different paint matrices will act differently. This might vary based on paint type, manufacturer, etc.

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From: Xiaoyu Liu/RTP/USEPA/US
To: Corey Mocka/RTP/USEPA/US@EPA
Date: 09/16/2011 09:14 AM
Subject: Re: NASA Extraction Lit

They only evaluated paint. For us, even paint, different paint gave us different results.

From: Corey Mocka/RTP/USEPA/US
To: Xiaoyu Liu/RTP/USEPA/US@EPA
Date: 09/16/2011 08:59 AM
Subject: NASA Extraction Lit

From NASA Report:

"Through experimentation, it has been determined that if the material is first lightly dampened with toluene, then extracted in ethanol, made slightly polar with the addition of a small amount of water, and finally extracted again into non-polar hexane, the end chromatograph is cleaner thereby decreasing contamination to the GC column. **Internal laboratory studies using controls have shown comparable recoveries using this toluene: ethanol:water into hexane extraction to the hexane: acetone mixture noted in EPA Methods 3550 and 8082.**"

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